

RAW SEQUENCE LISTING

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Information Center (STIC) no errors detected.**

Application Serial Number: 10/538,041B
Source: IFwo
Date Processed by STIC: 7/25/06

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/538,041B

DATE: 07/25/2006

TIME: 12:38:36

Input Set : A:\Q88285 Seq List.TXT
 Output Set: N:\CRF4\07252006\J538041B.raw

4 <110> APPLICANT: TOOLGEN, Inc.
 6 <120> TITLE OF INVENTION: Regulatory Zinc Finger Proteins
 8 <130> FILE REFERENCE: Q88285
 10 <140> CURRENT APPLICATION NUMBER: US 10/538,041B
 11 <141> CURRENT FILING DATE: 2005-06-08
 13 <150> PRIOR APPLICATION NUMBER: US 60/431,892
 14 <151> PRIOR FILING DATE: 2002-12-09
 16 <160> NUMBER OF SEQ ID NOS: 129
 18 <170> SOFTWARE: PatentIn version 3.2
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 23
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
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 30 Arg Arg His Gly Arg Thr His
 31 20
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 23
 36 <212> TYPE: PRT
 37 <213> ORGANISM: Homo sapiens
 39 <400> SEQUENCE: 2
 41 Tyr Ser Cys Gly Ile Cys Gly Lys Ser Phe Ser Asp Ser Ser Ala Lys
 42 1 5 10 15
 44 Arg Arg His Cys Ile Leu His
 45 20
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 23
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 3
 55 Tyr Thr Cys Ser Asp Cys Gly Lys Ala Phe Arg Asp Lys Ser Cys Leu
 56 1 5 10 15
 58 Asn Arg His Arg Arg Thr His
 59 20
 62 <210> SEQ ID NO: 4
 63 <211> LENGTH: 23
 64 <212> TYPE: PRT
 65 <213> ORGANISM: Homo sapiens
 67 <400> SEQUENCE: 4
 69 Tyr Lys Cys Gly Gln Cys Gly Lys Phe Tyr Ser Gln Val Ser His Leu
 70 1 5 10 15

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72 Thr Arg His Gln Lys Ile His
73 20
76 <210> SEQ ID NO: 5
77 <211> LENGTH: 23
78 <212> TYPE: PRT
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 5
83 Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Arg Gln Ser Ser His Leu
84 1 5 10 15
86 Thr Thr His Lys Ile Ile His
87 20
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 23
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
95 <400> SEQUENCE: 6
97 Tyr Glu Cys Glu Lys Cys Gly Lys Ala Phe Asn Gln Ser Ser Asn Leu
98 1 5 10 15
100 Thr Arg His Lys Lys Ser His
101 20
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 23
106 <212> TYPE: PRT
107 <213> ORGANISM: Homo sapiens
109 <400> SEQUENCE: 7
111 Tyr Val Cys Ser Lys Cys Gly Lys Ala Phe Thr Gln Ser Ser Asn Leu
112 1 5 10 15
114 Thr Val His Gln Lys Ile His
115 20
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 23
120 <212> TYPE: PRT
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 8
125 Tyr Lys Cys Pro Asp Cys Gly Lys Ser Phe Ser Gln Ser Ser Ser Leu
126 1 5 10 15
128 Ile Arg His Gln Arg Thr His
129 20
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 25
134 <212> TYPE: PRT
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 9
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140 1 5 10 15
142 Glu Leu Asn Arg His Lys Lys Arg His
143 20 25
146 <210> SEQ ID NO: 10
147 <211> LENGTH: 23

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148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 10
154 Phe Gln Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu
155 1 5 10 15
157 Lys Thr His Thr Arg Thr His
158 20
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 23
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 11
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171 Thr Arg His Gln Arg Ile His
172 20
175 <210> SEQ ID NO: 12
176 <211> LENGTH: 23
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 12
182 Tyr Ile Cys Arg Lys Cys Gly Arg Gly Phe Ser Arg Lys Ser Asn Leu
183 1 5 10 15
185 Ile Arg His Gln Arg Thr His
186 20
189 <210> SEQ ID NO: 13
190 <211> LENGTH: 23
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
194 <400> SEQUENCE: 13
196 Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Val Ser Ser Asn Leu
197 1 5 10 15
199 Asn Val His Arg Arg Ile His
200 20
204 <210> SEQ ID NO: 14
205 <211> LENGTH: 23
206 <212> TYPE: PRT
207 <213> ORGANISM: Homo sapiens
209 <400> SEQUENCE: 14
211 Tyr Thr Cys Lys Gln Cys Gly Lys Ala Phe Ser Val Ser Ser Ser Leu
212 1 5 10 15
214 Arg Arg His Glu Thr Thr His
215 20
218 <210> SEQ ID NO: 15
219 <211> LENGTH: 23
220 <212> TYPE: PRT
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 15
225 Tyr Glu Cys Asn Tyr Cys Gly Lys Thr Phe Ser Val Ser Ser Thr Leu

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Input Set : A:\Q88285 Seq List.TXT
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226 1 5 10 15
228 Ile Arg His Gln Arg Ile His
229 20
232 <210> SEQ ID NO: 16
233 <211> LENGTH: 23
234 <212> TYPE: PRT
235 <213> ORGANISM: Homo sapiens
237 <400> SEQUENCE: 16
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240 1 5 10 15
242 Thr Arg His Lys Arg Ile His
243 20
246 <210> SEQ ID NO: 17
247 <211> LENGTH: 23
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 17
254 Tyr Glu Cys Asp His Cys Gly Lys Ser Phe Ser Gln Ser Ser His Leu
255 1 5 10 15
257 Asn Val His Lys Arg Thr His
258 20
261 <210> SEQ ID NO: 18
262 <211> LENGTH: 23
263 <212> TYPE: PRT
264 <213> ORGANISM: Homo sapiens
266 <400> SEQUENCE: 18
268 Phe Leu Cys Gln Tyr Cys Ala Gln Arg Phe Gly Arg Lys Asp His Leu
269 1 5 10 15
271 Thr Arg His Met Lys Lys Ser
272 20
275 <210> SEQ ID NO: 19
276 <211> LENGTH: 24
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Artificial zinc finger domain
283 <400> SEQUENCE: 19
285 Tyr Arg Cys Lys Tyr Cys Asp Arg Ser Phe Ser Asp Ser Ser Asn Leu
286 1 5 10 15
288 Gln Arg His Val Arg Asn Ile His
289 20
292 <210> SEQ ID NO: 20
293 <211> LENGTH: 83
294 <212> TYPE: PRT
295 <213> ORGANISM: Artificial
297 <220> FEATURE:
298 <223> OTHER INFORMATION: artificial zinc finger protein
300 <400> SEQUENCE: 20
302 Tyr Lys Cys Gly Gln Cys Gly Lys Phe Tyr Ser Gln Val Ser His Leu

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Input Set : A:\Q88285 Seq List.TXT
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303 1	5	10	15
304 Thr Arg His Gln Lys Ile His Thr Gly Glu Lys Pro Phe Gln Cys Lys			
305 20	25	30	
307 Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr			
308 35	40	45	
310 Arg Thr His Thr Gly Glu Lys Pro Tyr Ile Cys Arg Lys Cys Gly Arg			
311 50	55	60	
313 Gly Phe Ser Arg Lys Ser Asn Leu Ile Arg His Gln Arg Thr His Thr			
314 65	70	75	80
316 Gly Glu Lys			
320 <210> SEQ ID NO: 21			
321 <211> LENGTH: 83			
322 <212> TYPE: PRT			
323 <213> ORGANISM: Artificial			
325 <220> FEATURE:			
326 <223> OTHER INFORMATION: artificial zinc finger protein			
328 <400> SEQUENCE: 21			
330 Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Arg Gln Ser Ser His Leu			
331 1	5	10	15
333 Thr Thr His Lys Ile Ile His Thr Gly Glu Lys Pro Tyr Lys Cys Met			
334 20	25	30	
336 Glu Cys Gly Lys Ala Phe Asn Arg Arg Ser His Leu Thr Arg His Gln			
337 35	40	45	
339 Arg Ile His Thr Gly Glu Lys Pro Phe Gln Cys Lys Thr Cys Gln Arg			
340 50	55	60	
342 Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr Arg Thr His Thr			
343 65	70	75	80
345 Gly Glu Lys			
349 <210> SEQ ID NO: 22			
350 <211> LENGTH: 83			
351 <212> TYPE: PRT			
352 <213> ORGANISM: Artificial			
354 <220> FEATURE:			
355 <223> OTHER INFORMATION: artificial zinc finger protein			
357 <400> SEQUENCE: 22			
359 Tyr Lys Cys Gly Gln Cys Gly Lys Phe Tyr Ser Gln Val Ser His Leu			
360 1	5	10	15
362 Thr Arg His Gln Lys Ile His Thr Gly Glu Lys Pro Phe Gln Cys Lys			
363 20	25	30	
365 Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr His Thr			
366 35	40	45	
368 Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Met Glu Cys Gly Lys			
369 50	55	60	
371 Ala Phe Asn Arg Arg Ser His Leu Thr Arg His Gln Arg Ile His Thr			
372 65	70	75	80
374 Gly Glu Lys			
378 <210> SEQ ID NO: 23			
379 <211> LENGTH: 83			
380 <212> TYPE: PRT			

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:123; Xaa Pos. 2,3,4,5,6,8,9,10,11,12,13,14,15,16,17,18,19,21,22,23,24

Seq#:123; Xaa Pos. 25

Seq#:124; Xaa Pos. 2,3,4,5,6,8,9,10,11,12,14,17,18,21,22,23,24,25

Seq#:125; Xaa Pos. 3,4,6

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66

Seq#:67,68,69,70,71,123,124,125,126,127,128

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L:3276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0
L:3279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:16
L:3348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
L:3351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:16
L:3381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0